

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100420

Analyst/Technician(s): C. O. Bryant

Start Date: 5/7/24

Date Instrument Received: 5/6/24

Reason for instrument evaluation

Data Retrieval - potentially missing data files from DM Host.

### Visual Inspection:

- Clean
- Replace missing screws
- Cermetex Box (modem) is secure
- Ensure modem cable present
- Double Check Valve secured to wall
- All tubing and connections secure
- O-ring inspection and ensure 2 replacement O-rings in bag
- Attach VOC
- VOC Internal Standard  $\leq 3.00\%$
- Verify software version

Condition of item:  No apparent damage  Damaged

NOTE: As Found Linearity is required if the instrument is not damaged and the internal standard value is not more than 4.00%

### As Found Conditions (if performed):

Barometric Pressure (inHg): 29.29 Temperature (C): 21.5 Relative Humidity (%) 29

Linearity Test Levels (g/210L): 0.020, 0.080, 0.300

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Attach Non-Drinking Subject Test

### Conclusion:

- Ready for Adjustment
- Needs Repair
- Ready for Calibration

Lab Work End Date: 5/7/24

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100420

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/07/2024

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.43: 0.079  
LOT #: AG335202  
EXPIRATION: 12/18/2025  
TANK PRESSURE: 1188 psi

BLANK TEST	0.000	11:28
INTERNAL STANDARD	VERIFIED	11:28
Xq = 0.079	(0.44%)	
EXTERNAL STANDARD	0.078	11:29
X[1] = 0.0783 (-0.0015)	(0.0013)	
BLANK TEST	0.000	11:30
EXTERNAL STANDARD	0.078	11:30
X[1] = 0.0783 (-0.0010)	(-0.0001)	
BLANK TEST	0.000	11:31
EXTERNAL STANDARD	0.078	11:31
X[1] = 0.0784 (-0.0015)	(0.0000)	
BLANK TEST	0.000	11:32
EXTERNAL STANDARD	0.079	11:32
X[1] = 0.0785 (-0.0005)	(0.0000)	
BLANK TEST	0.000	11:33
EXTERNAL STANDARD	0.079	11:33
X[1] = 0.0786 (-0.0007)	(-0.0002)	
BLANK TEST	0.000	11:34

Average = 0.0784  
Std Dev = 0.0005

## Diagnostic Check

### VERSIONS

DMT: 3.02  
PIC: 3.02  
Modem: 2.6  
Questions: 2.2

### TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 48.1°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.89 V	PASSED
(1.10 V - 2.58 V)	
Cooler Voltage = 1.71 V	PASSED
(1.01 V - 2.35 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 530 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.4 in	

### PUMP INFO

Flow Rate = 4.953 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

### DETECTOR INFO

PUMP ON	PASSED
(0.002 V <= 0.010 V)	
PUMP OFF	PASSED
(0.002 V <= 0.010 V)	

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
Xq = 0.080	(1.20%) (0.00% - 4.00%)

LINEARITY CHECK

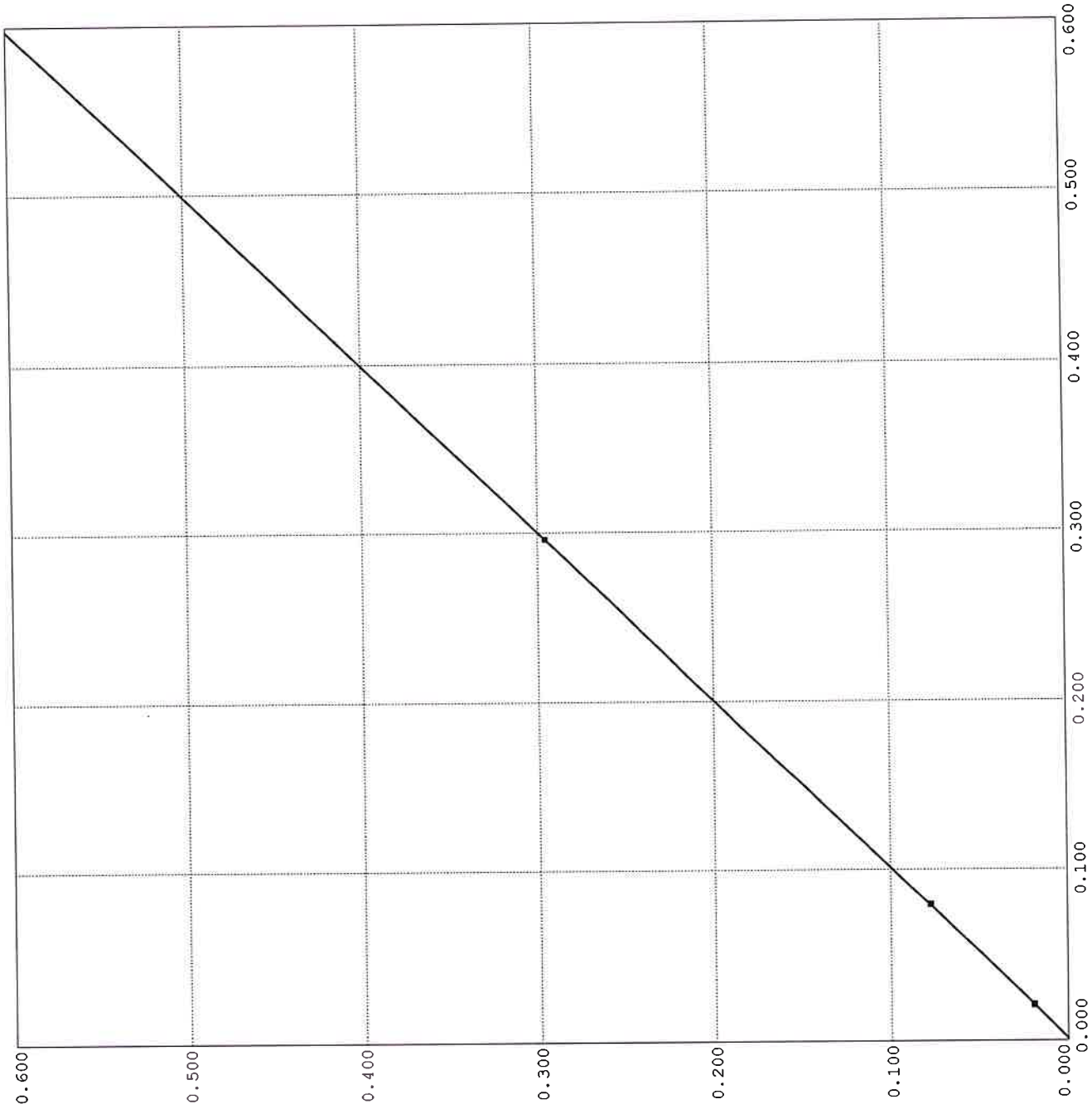
-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100420  
 -----

Date: 05/07/2024  
 Time: 12:33:30

SUPERVISOR NAME:  
 COLLEEN S O'BRYAN  
 OPERATOR'S #: 6237

TARGET	AVERAGE	STD. DEV.
0.020	0.0198	0.0004
0.079	0.0786	0.0009
0.295	0.2964	0.0009

SLOPE = 1.006496  
 R<sup>2</sup> = 0.999996



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
DATAMASTER dmt: 100420

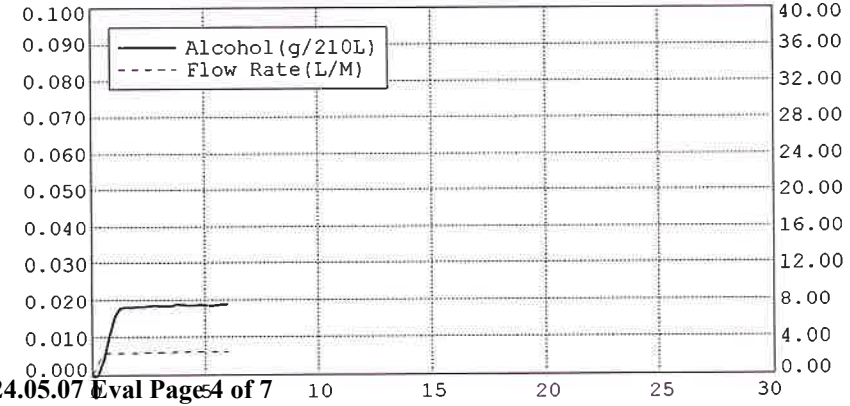
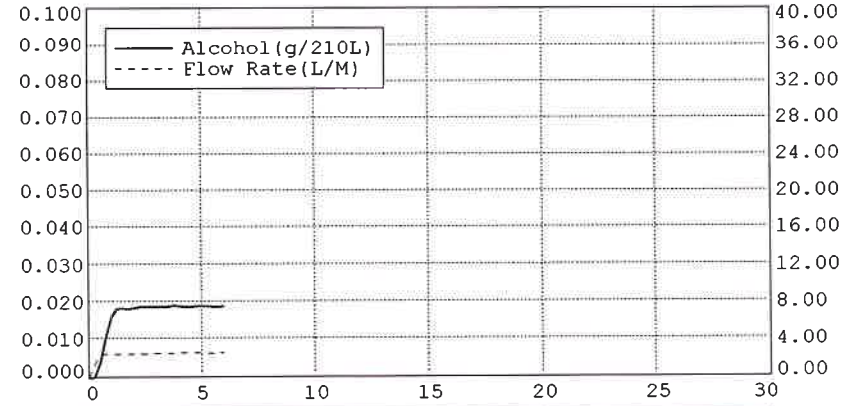
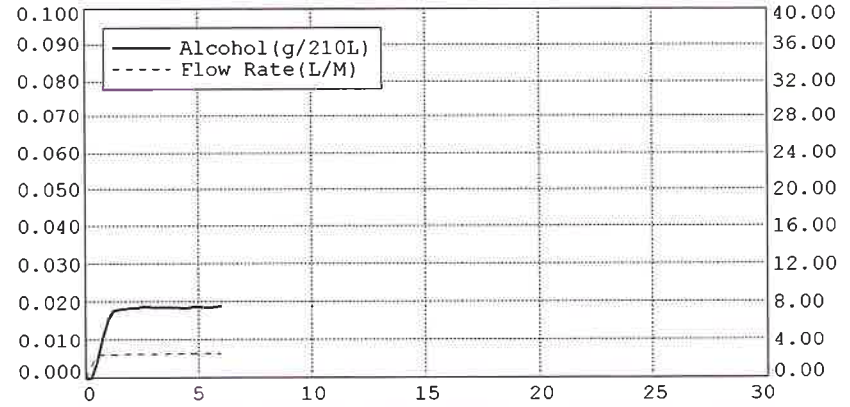
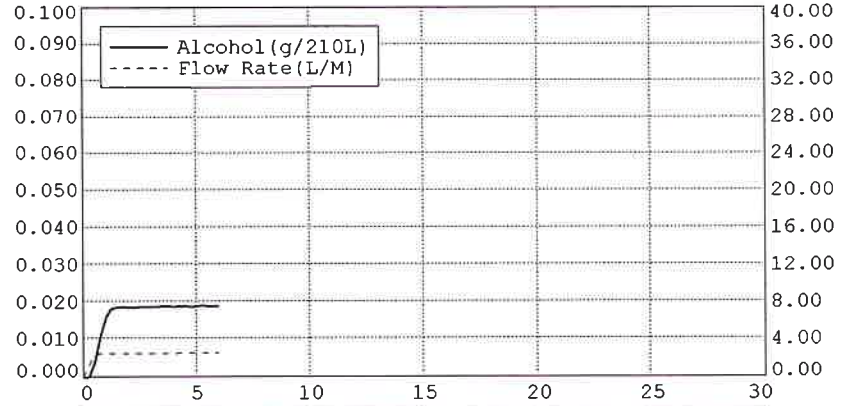
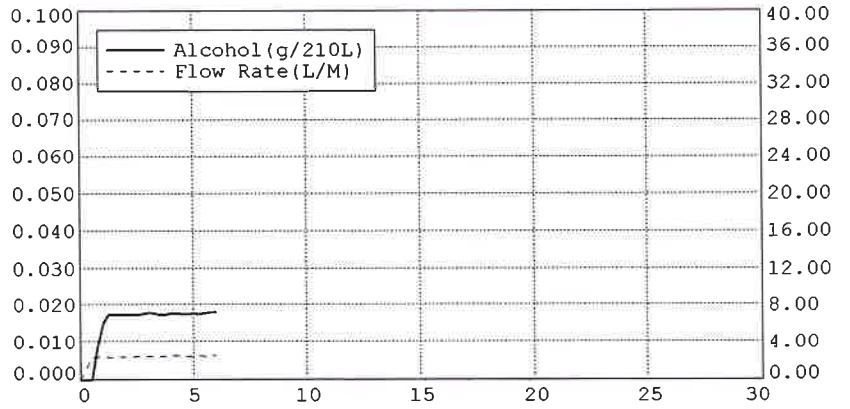
Date: 05/07/2024  
Time: 12:33:31

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
TARGET AT 29.42: 0.020  
LOT #: AG217902  
EXPIRATION: 06/28/2024  
TANK PRESSURE: 149 psi

BLANK TEST	0.000	12:34
INTERNAL STANDARD	VERIFIED	12:34
EXTERNAL STANDARD	0.019	12:35
BLANK TEST	0.000	12:36
EXTERNAL STANDARD	0.020	12:36
BLANK TEST	0.000	12:37
EXTERNAL STANDARD	0.020	12:37
BLANK TEST	0.000	12:38
EXTERNAL STANDARD	0.020	12:38
BLANK TEST	0.000	12:39
EXTERNAL STANDARD	0.020	12:39
BLANK TEST	0.000	12:40

Average = 0.0198  
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
DATAMASTER dmt: 100420

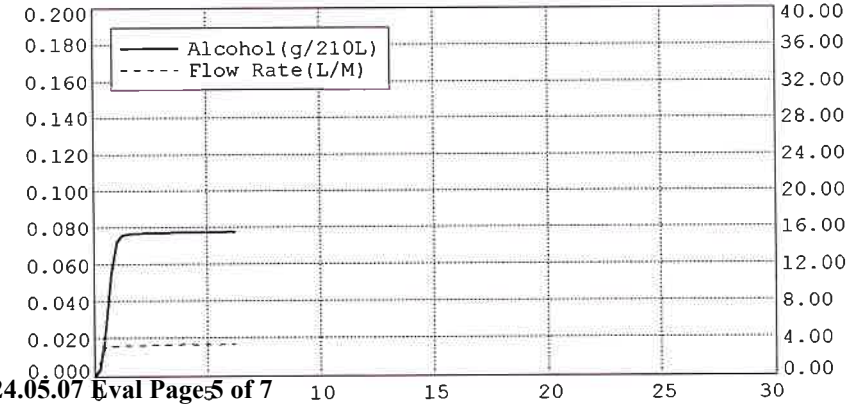
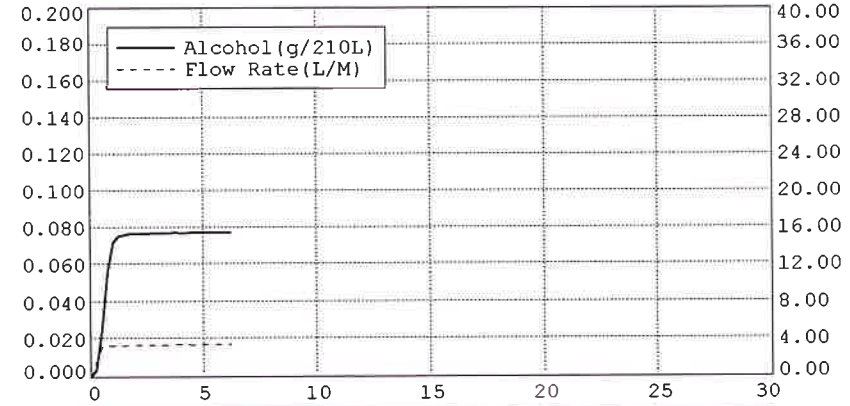
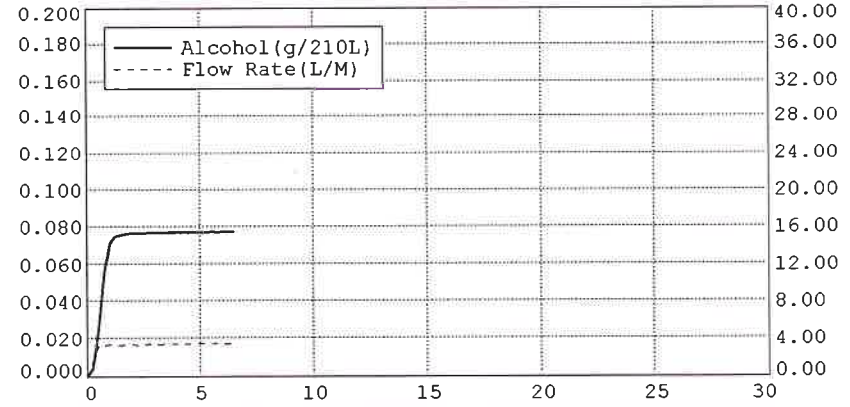
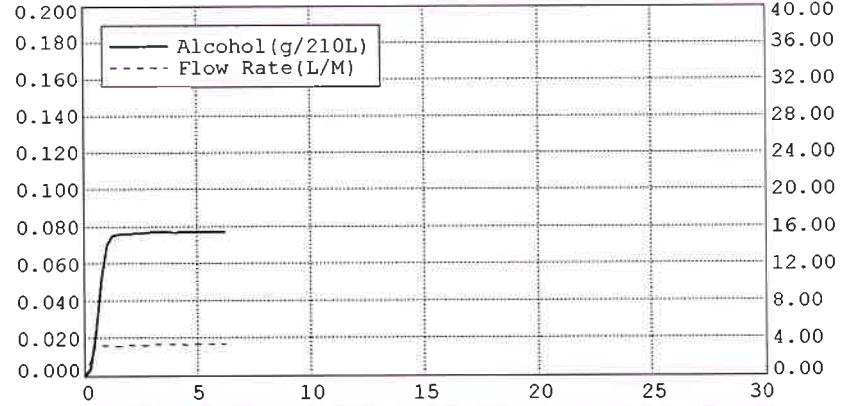
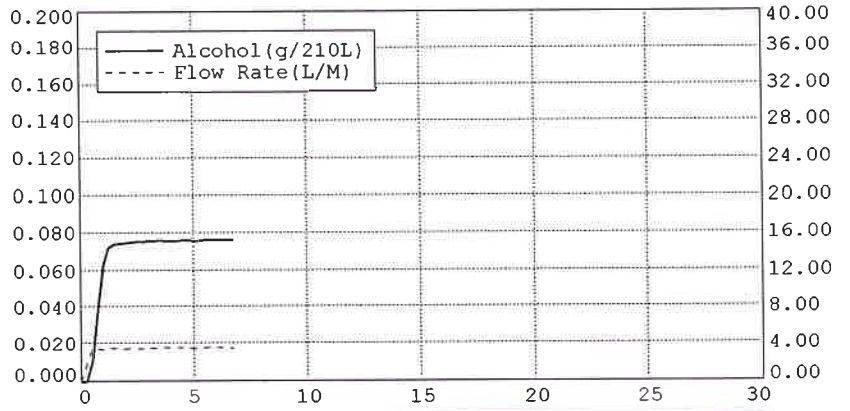
Date: 05/07/2024  
Time: 12:41:51

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.42: 0.079  
LOT #: AG335202  
EXPIRATION: 12/18/2025  
TANK PRESSURE: 1174 psi

BLANK TEST	0.000	12:43
INTERNAL STANDARD	VERIFIED	12:43
EXTERNAL STANDARD	0.077	12:43
BLANK TEST	0.000	12:44
EXTERNAL STANDARD	0.079	12:44
BLANK TEST	0.000	12:45
EXTERNAL STANDARD	0.079	12:45
BLANK TEST	0.000	12:47
EXTERNAL STANDARD	0.079	12:47
BLANK TEST	0.000	12:48
EXTERNAL STANDARD	0.079	12:48
BLANK TEST	0.000	12:50

Average = 0.0786  
Std Dev = 0.0009



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
DATAMASTER dmt: 100420

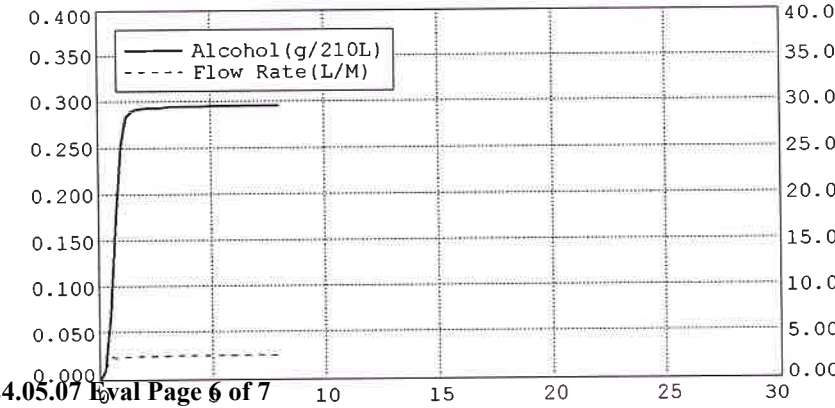
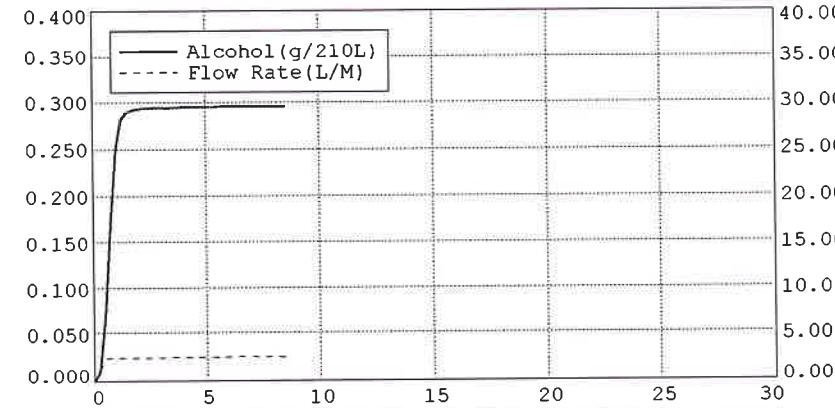
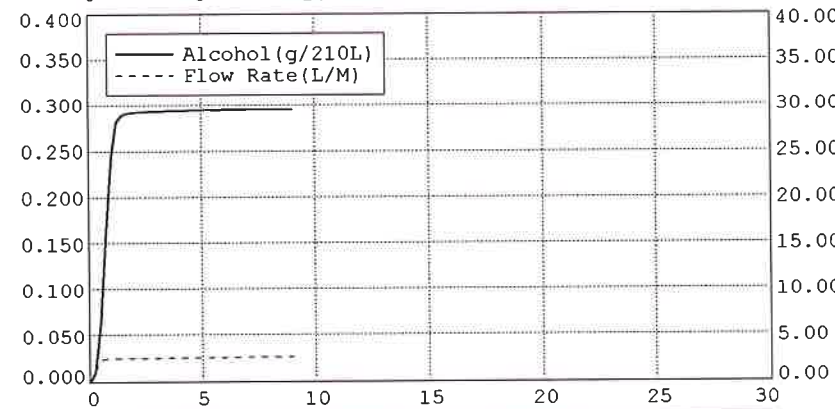
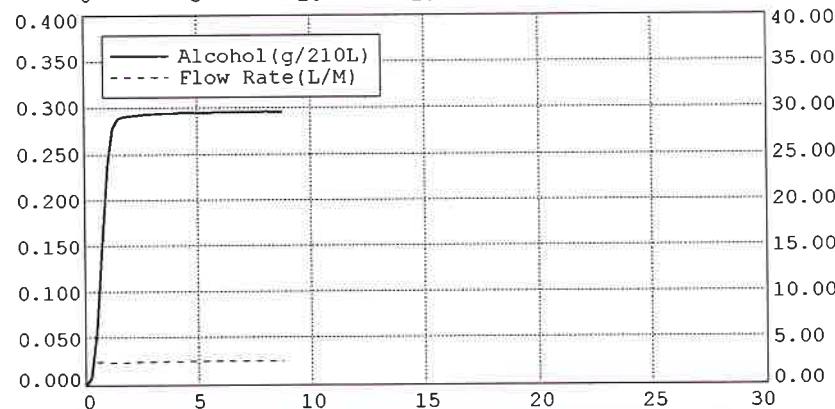
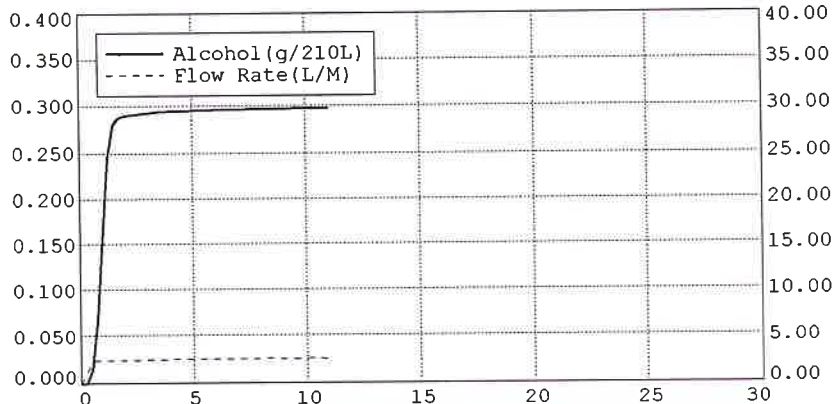
Date: 05/07/2024  
Time: 12:51:07

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300  
TARGET AT 29.42: 0.295  
LOT #: AG327804  
EXPIRATION: 10/05/2025  
TANK PRESSURE: 386 psi

BLANK TEST	0.000	12:52
INTERNAL STANDARD	VERIFIED	12:52
EXTERNAL STANDARD	0.298	12:52
BLANK TEST	0.000	12:53
EXTERNAL STANDARD	0.296	12:53
BLANK TEST	0.000	12:54
EXTERNAL STANDARD	0.296	12:55
BLANK TEST	0.000	12:56
EXTERNAL STANDARD	0.296	12:56
BLANK TEST	0.000	12:57
EXTERNAL STANDARD	0.296	12:57
BLANK TEST	0.000	12:58

Average = 0.2964  
Std Dev = 0.0009



SUBJECT TEST

Alaska Department of Public Safety

DATA MASTER dmt: 100420

Date: 05/07/2024

Time: 13:07:01

SUBJECT NAME:

TEST TEST

LICENSE #: NONDRINKING

OPERATOR NAME:

COLLEEN S O'BRYAN

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 24-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.41: 0.079

LOT #: AG335202

EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	13:08
BLANK TEST	0.000	13:08
INTERNAL STANDARD	VERIFIED	13:08
EXTERNAL STANDARD	0.078	13:08
BLANK TEST	0.000	13:09
SUBJECT SAMPLE (Vol=1.72L)	0.000	13:09
BLANK TEST	0.000	13:10
EXTERNAL STANDARD	0.079	13:11
BLANK TEST	0.000	13:11

